

Printing date 03/22/2016

Reviewed on 03/22/2016

1 Identification

- · Product identifier
- · Trade name: CHAINLUBE OFF ROAD SPRAY
- · Application of the substance / the mixture

Lubrication, anticorrosive Only for proper handling.

- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

BUCHER_AG_LANGENTHAL MOTOREX-Schmiertechnik Bern-Zürich-Strasse_31__ CH-4901_Langenthal__ Telefon_+41_(0)62_919_75_75

Lube-Tech Lubrication Technologies, Inc. 900 Mendelssohn Avenue North US-55427 Golden Valley, Minnesota Phone: 001 763 417 1357

- · Information department: msds@motorex.com
- Emergency telephone number:
 Toxicological Information Centre
 CH-8028 Zurich
 info@toxi.ch

<u>ппо вюхі.сп</u> Т. +41 (0)44 251 51 51

USA + Kanada: 1 800 424 9300 (Chemtrec Chemical Manufacturers Association, Arlington, VA 22209)

2 Hazard(s) identification

· Classification of the substance or mixture



Flam. Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurized container: May burst if heated.

- · Label elements
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



- · Signal word Danger
- · Hazard statements

H222-H229 Extremely flammable aerosol. Pressurized container: May burst if heated.

· Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P251 Do not pierce or burn, even after use.

P211 Do not spray on an open flame or other ignition source.

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P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 0 Fire = 4 Reactivity = 3

· HMIS-ratings (scale 0 - 4)



Health = 0 Fire = 4Reactivity = 3

- · Other hazards
- · Results of PBT and vPvB assessment
- PBT: Not applicable.vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerou	s components:		
CAS: 106-		butane	10-25%
Reg.nr.: 0	1-2119474691-32	Flam. Gas 1, H220; Press. Gas, H280	
CAS: 6474		Hydrocarbons, C10-C13, n-alkanes, isoalkanes,	10-25%
Reg.nr.: 0	1-2119463258-33	cycloalkanes, <2% aromatics	
		& Asp. Tox. 1, H304	
CAS: 74-9		propane	2.5-7.5%
Reg.nr.: 0	1-2119486944-21	♦ Flam. Gas 1, H220; Press. Gas, H280	

4 First-aid measures

- · Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Remove residues with soap and water.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· Special hazards arising from the substance or mixture No further relevant information available.

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- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up: Ensure adequate ventilation.
- · Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Handling:
- · Precautions for safe handling No special precautions are necessary if used correctly.
- · Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:

Observe official regulations on storing packagings with pressurized containers.

- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep receptacle tightly sealed.
- · Storage class: 2 B
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters

· Com	ponents with limit values that require monitoring at the workplace:
106-9	97-8 butane
REL	Long-term value: 1900 mg/m³, 800 ppm
TLV	Short-term value: 2370 mg/m³, 1000 ppm
74-98	8-6 propane
PEL	Long-term value: 1800 mg/m³, 1000 ppm
REL	Long-term value: 1800 mg/m³, 1000 ppm
TLV	refer to Appendix F inTLVs and BEIs book

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures: Wash hands before breaks and at the end of work.

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- · Breathing equipment: Not required.
- · Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection: Not required.

9 Physical and chemical properties

· Information on basic physical and o	chemical properties
· General Information	memical properties
· Appearance:	
Form:	Liquefied gas
Color:	Light yellow
· Odor:	typical, characteristic
· Odor threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Not applicable, as aerosol.
· Flash point:	< -5 °C (< 23 °F)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	365 °C (689 °F) (DIN 51794)
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits:	
Lower:	1.5 Vol %
Upper:	8.5 Vol %
· Vapor pressure at 20 °C (68 °F):	2100 hPa (1575 mm Hg)
· Density at 20 °C (68 °F):	0.811 g/cm³ (6.768 lbs/gal) (ASTM D 4052)
Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not applicable.
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· Solubility in / Miscibility with

Water: Not miscible or difficult to mix.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic: Not determined.

Kinematic: < 1 mm²/s @40 °C (DIN 51562-1)

VOC content: 38.1 %

308.7 g/l / 2.58 lb/gl

Other information
 No further relevant information available.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- · Carcinogenic categories

· IARC (International Agency for Research on Cancer)	
5989-27-5 (R)-p-mentha-1,8-diene	3
128-37-0 2,6-di-tert-butyl-p-cresol	3
· NTP (National Toxicology Program)	
None of the ingredients is listed.	

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.

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- · Additional ecological information:
- · General notes:

Water hazard class 1 (Self-classification according VwVwS, 17.05.1999): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation:

Disposal must be made according to official regulations.

Discharged containers can contain flammable or explosive vapours.

14 Transpo	rt infori	mation
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I INI_NI:	ımhar	

· DOT, ADR,ADN, IMDG, IATA

· UN proper shipping name

· DOT, IATA

· ADR/ADN

1950 Aerosols AEROSOLS

Aerosols, flammable

UN1950

· Transport hazard class(es)

· DOT

· IMDG



· Class · Label 2.1

2.1

· ADR/ADN



· Class

2 5F Gases

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Label	2.1
· IMDG, IATA	
· Class · Label	2.1 2.1
· Packing group · DOT, ADR,ADN, IMDG, IATA	Void
· Environmental hazards: · Marine pollutant:	No
Special precautions for user Danger code (Kemler): EMS Number: Stowage Code Segregation Code	Warning: Gases F-D,S-U SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximu capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre Category B. For WASTE AEROSOLS Category C, Clear of living quarters. SG69 For AEROSOLS with a maximu capacity of 1 litre: Segregation as for class Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.
· Transport in bulk according to Annex I MARPOL73/78 and the IBC Code	I of Not applicable.
· Transport/Additional information:	
· ADR/ADN · Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E0 Not permitted as Excepted Quantity
· UN "Model Regulation":	UN 1950 AEROSOLS, 2.1

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Sara
- · Section 355 (extremely hazardous substances):

None of the ingredients is listed.

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	(Specific toxic chemical listings):	
	ingredients is listed.	
•	c Substances Control Act):	
	Polypropylenglycolmonobutylether	
106-97-8		
	propane	
	isobutane	
	Polysulfides, di-tert-dodecyl	
	isopentane	
	(R)-p-mentha-1,8-diene	
	2,6-di-tert-butyl-p-cresol	
	N-Oleoyl-sarcosid	
	N,N-bis(2-ethylhexyl)-((1,2,4-triazol-1-yl)methyl)amine	
94270-86-7	1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl-	
5392-40-5		
80939-62-4	Amine, C11-14-verzweigte Alkyl-, Monoexyl und Dihexylphosphate	
	(Tetrapropenyl)bernsteinsäure	
	Citronellol	
Proposition	65	
· Chemicals	known to cause cancer:	
None of the	ingredients is listed.	
	known to cause reproductive toxicity for females:	
None of the	ingredients is listed.	
	known to cause reproductive toxicity for males:	
None of the	ingredients is listed.	
· Chemicals	known to cause developmental toxicity:	
None of the	ingredients is listed.	
Carcinogen	ic categories	
· EPA (Enviro	onmental Protection Agency)	
None of the	ingredients is listed.	
· TLV (Thresi	hold Limit Value established by ACGIH)	
128-37-0 2,	6-di-tert-butyl-p-cresol	
127-91-3 be	eta-Pinene	
80-56-8 pi	n-2(3)-ene	
NIOSH-Ca (National Institute for Occupational Safety and Health)	

· National chemical directories

Components listed or exempted from listing: TSCA (USA)
DSL/NDSL (CDN)
AICS (Aus)
IECSC (CN)
EINECS/ELINCS/NLP (EU)
ECL/KECI (KOR)
HSNO (NZ)

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PICCS (RP)

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· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Abteilung Produktsicherheit
- · Date of preparation / last revision 03/22/2016 / -
- · Abbreviations and acronyms:

Flam. Gas 1: Flammable gases, Hazard Category 1 Flam. Aerosol 1: Flammable aerosols, Hazard Category 1 Press. Gas: Gases under pressure: Compressed gas Asp. Tox. 1: Aspiration hazard, Hazard Category 1

US